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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,324	06/27/2001	Laszlo Prokai	1540/139	2061
2101 7	2101 7590 11/12/2003		ЕХАМП	NER
BROMBERG & SUNSTEIN LLP 125 SUMMER STREET BOSTON, MA 02110-1618			QAZI, SABIHA NAIM	
			ART UNIT	PAPER NUMBER
,			1616	12
			DATE MAILED: 11/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/893,324	PROKAI-ET-AL.
Office Action-Summary	Examin r	Art Unit
	Sabiha Qazi	1616
The MAILING DATE of this communication app	ears on the cover she t with the	correspond nc address
Period for Reply	(IO OFT TO EVOIDE AMONT)	VO) FDOM
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. ED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 14 A	<u>ugust 2003</u> .	·
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.	
3) Since this application is in condition for allowar closed in accordance with the practice under E		
Disposition of Claims		
4) Claim(s) <u>1 and 5-9</u> is/are pending in the application	ation.	
4a) Of the above claim(s) is/are withdray	vn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1, 5-9</u> is/are rejected. ⊂		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examine	r.	
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.
Priority under 35 U.S.C. §§ 119 and 120		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119((a)-(d) or (f).
1. Certified copies of the priority documents		
2. Certified copies of the priority documents		
3. Copies of the certified copies of the prior application from the International Bureau	•	ed in this National Stage
* See the attached detailed Office action for a list	, , , , ,	ved.
13) Acknowledgment is made of a claim for domestic since a specific reference was included in the firs 37 CFR 1.78.	c priority under 35 U.S.C. § 119 at sentence of the specification of	(e) (to a provisional application) or in an Application Data Sheet.
a) The translation of the foreign language pro		
14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)

Final Action on Merits

- 1. Acknowledgement is made of the response filed in paper no. 13, dated 8/14/03. Claims 1, and 5-9 are pending. Amendments are entered. Presently claimed invention of claim 1, 5-9 drawn to compounds and pharmaceutical formulations of estrogen (A ring is aromatic), having alkyl ether group at 17 position of the D ring such as 1, 3, 5(10) triene-3-ol-17-alkyl ether estradiols.
- 2. Rejection 35 U.S.C. 103(a) is maintained while other rejections are withdrawn because claims are amended. Rejection under 103 is maintained for the same reasons as set forth in our previous office action because arguments are not found persuasive.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. The disclosure is objected to because of the following informalities.

A typing error is noted on page 16, line 29. The 4e compound is hexyloxyestra derivative (see line12 on page 14) and not a butyloxyestra derivative.

Appropriate correction is required.

- 5. The reference Gridley et al. cited in line 18-19 on page 1 of the specification is incomplete as the Journal name is missing. Applicant is requested to provide a complete reference.
- 7. Claims 1 and 5-9 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Simpkins et al. (US 5,554,601). Simpkins et al. teach estra-17 substituted alkyl ether for neuroprotection and method for treating neurodegenerative diseases including Alzheimer's disease, which embraces Applicant's claimed invention. See the entire

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document especially lines 11-54, col. 3; lines 1-42, col. 4; examples and claims especially claim 4.

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COLOGORISCEDES	-o-c-(a6), -(3			
PROFICEACE	-B-C (CH ₂) ₂			
HEMBLECONELL	-C4*403			
PERMIT	-c ¹⁸ 1220			

R ₁ AND/OR R ₂ SUBSTITUTIONS			
NAME	STRUCTURE		
SODIUM PHOSPHATE	-0-P03No2		
ENANTHATE	-C7H120		
CLUCURONNOE, SODRUM SALT	-C6H3O6Na		
STEARATE	-C _{[B} H ₃₄ 0		
TRIETHYL ANAKONIUM SALT	-N-(C2H5)3		
CYPIONATE	0 0-0-0H20H2 -		
178 ESTRADICA	OH ON OH		
17a ESTRADIOL			

Instant claims are drawn to 17-substituted alkyl ether at D ring in a compound having aromatic ring A.

Instant claims differ from the reference by reciting specific species and/or a more limited subgenus than the reference. See formula in col. 4 and Figs 9A and 9B on sheets 9 and 10 where various substituents at R1 and/or R2 are listed, which includes valerate, stearate, and benzyl ether. Arguments that presently claimed invention disclaims methyl ether and ethyl ether at R 17 position, compounds are still considered

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obvious due to the reason cited above. Note, that US '601 teaches that "estrogen compound" is defined as any structure described in the 11th edition of "steroids" from Steraloids Inc. and is incorporated as a reference. See lines 50-67 in col. 4. In present application same reference is incorporated. Even though some compounds are disclaimed, other steroids are considered obvious.

In the light of the forgoing discussion, the Examiner's ultimate legal conclusion is that the subject matter defined by the instant claims would have been obvious within the meaning of 35 U.S.C. 103(a).

8. Claims 1, and 5-9 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Amended claims recite "a long chain saturated alkyl, a long chain unsaturated alkyl" is considered a new matter. There is no support for such a long chain alkyl group. Applicants must limit the claims according to the disclosure of the invention.

9. For everyone's convenience applicant should draw the structure of the estrogenic compounds in claim 1.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sabiha Qazi whose telephone number is 703-305-3910. The examiner can normally be reached on every business day...

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 703-308-2927. The fax phone number for the organization where this application or proceeding is assigned is 703-308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

SEBIHA QAZI, PH.D GRIMARY EXAMINER